

REMARKS

By this Amendment, claims 1-2 and 33-34 are canceled without prejudice or disclaimer, claims 3-32 and 35-56 are amended merely to clarify the recited subject matter and new claims 57-101 are added to more fully claim the patentable invention disclosed in the specification. Claims 57-101 are patentable for at least reasons commensurate with the allowable claims indicated in the outstanding Office Action. Claims 3-32 and 35-101 are pending.

Applicants acknowledge the recognition that claims 8, 13-15, 32, 40 and 43-45 include allowable subject matter. Applicants have amended those claims so as to be written in independent form. Therefore, those claims are allowable.

Claims 1-56 were objected to; however, the amended claims have been corrected to eliminate the objectionable material.

Claims 1-7, 9-12, 16-31, 33-39, 41, 42 and 46-56 were rejected under 35 U.S.C. 102(e) as being anticipated by Greenstein et al. (U.S. 6,131,016; hereafter "Greenstein"). Applicants cancellation of claims 1-2 and 33-34 render the rejection of those claims moot. Applicants traverse the rejection of the remaining claims because Greenstein fails to disclose teach or suggest:

- a method of transmitting a digital signal from a transmitter to a receiver in a radio system, the method comprising "wherein the transmitter forms a quality value for the weighting coefficient data signaling it has received; and wherein the transmitter forms weighting coefficients using the quality value of the weighting coefficient data signaling and the signaling itself," as recited in independent claim 3 and its dependent claims 4-7, 9-12 and 16-31; and
- a radio system for transmitting a digital signal, the radio system comprising a transmitter, "wherein the transmitter comprises means for forming a quality value for the weighting coefficient data signaling it has received, and the changing means form weighting coefficients using the quality value of the weighting coefficient data signaling and the signaling itself," as recited in independent claim 35 and its dependent claims 36-39, 41-42 and 46-56.

Rather, Greenstein, and particularly, FIG. 2A illustrates, in block diagram form, an example of a base station processing circuitry, in which signal weighting devices 202a and 203a are connected to respective antennae 15 and 16. In Greenstein, the base station also includes a receive antenna 17, which is coupled to a feedback receiver 220. A processor 230

is connected to the feedback receiver 220, two transmission processing circuits 202 and 203 and the weighting devices 202a and 203a.

Greenstein merely teaches that both antennae transmit a plurality of tones including a pilot tone. The feedback receiver then receives a feedback signal transmitted from the wireless communication terminal. In Greenstein, the feedback signal could constitute a control signal generated by the terminal which is then passed to the processor to direct the processor for effecting appropriate adaptation of the transmission signals through transmission processing circuits 202 and 203. Alternatively, in Greenstein, the feedback signal received by the feedback receiver could constitute information (e.g., amplitude and/or phase) regarding the pilot tones transmitted by the respective transmission antennae. Greenstein teaches that the processor 230 could then operate upon the information defining the characteristics of the pilot tones and derive its own processing requirements for the transmission processing circuitry 202 and 203.

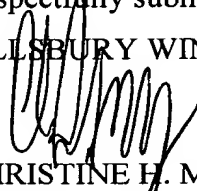
However, these teachings of Greenstein do not disclose, teach or suggest formation of a quality value for the weighting coefficient data signaling received by a transmitter, wherein that quality value is then used along with the weighting coefficient data signaling itself to form weighting coefficients of the weighting coefficient data signaling as recited in independent claims 3 and 35 and their respective dependent claims. Accordingly, the rejection is traversed and claims 3-7, 9-12, 16-31, 35-39, 41, 42 and 46-56 are allowable.

Therefore, all objections and rejections have been addressed. Therefore, Applicants request issuance of a notice of allowance indicating the allowability of all pending claims. If anything further is necessary to place the application in condition for allowance, Applicants request that the Examiner contact Applicants' undersigned representative at the telephone number listed below.

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Please charge any fees associated with the submission of this paper to Deposit Account Number 033975. The Commissioner for Patents is also authorized to credit any over payments to the above-referenced Deposit Account.

Respectfully submitted,
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